

PATENT

**Express Mail No. EL663032068US
Attorney Docket No. 17655
S&L File No. P-24,992-A USA**

09/06/1966 221

ABSTRACT OF THE DISCLOSURE

A microstrip antenna capable of providing high radiation gain both at the zenith and at low angles. The microstrip antenna includes a raised ground plane disposed on a flat ground plane, a dielectric substrate disposed on the raised ground plane, a patch disposed on the dielectric substrate, a feed pin disposed through the patch, the dielectric substrate and the raised ground plane, and a dielectric lens for encapsulating at least a portion of the patch to increase the radiation gain at low angles.

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